Bruhat Bangalore Mahanagara Palike

O/o Executive Engineer (PC-1), Ground Floor, Annexe -2, N R Square, Bengaluru-560002. Email: bbmpeepc01@gmail.com

NO: EE/PC-1/TEND/02/2023-24
Date: 22.12.2023

ADDENDUM-1

Project Name : "Consultancy services for assisting in preparation of Detailed Project Report (DPR) for the Comprehensive Development of Roads by providing White Topping in Jayanagar, Chickpet and Chamarajpet Constituencies in Bengaluru city" (Package-6)"

Ref :
1. Tender Notification NO: EE/PC-1/TEND/01/2023-24 Dt: 16-12-2023.
2. Tender Number: BBMP/2023-24/SE0107

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Following Addendum to the bid document for the above work is issued

SI No	Section of Tender	Clause No. and Description Mentioned in Tender	To be read as
1	Section 5 (TOR)	**2. DESCRIPTION OF ASSIGNMENT** The objective of this consultancy assignment is to assist in preparing detailed designs and engineering reports for comprehensive developing the roads by providing White Topping in urban roads for safe mode of travel for vehicles, NMT, public transport and pedestrians. The consultant shall study and recommend the improvements needed on these roads, additional facilities and infrastructure required after ascertaining through a detailed study/analysis of its technical, social and economic viability. The consultant shall undertake all surveys and investigations necessary for effective planning and implementation of the project. It	**2. DESCRIPTION OF ASSIGNMENT** The objective of this consultancy assignment is to assist in preparing detailed engineering reports for comprehensive development of roads by providing White Topping. The consultant shall undertake all surveys and investigations for effective planning and implementation of the project as detailed below. It shall include a comprehensive

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		shall include a comprehensive corridor wise study of existing traffic situation, traffic intensity, movement pattern, available road infrastructure, road right of way, pedestrian and bicycle (NMT) demand, traffic signaling system, future perceived Traffic Growth, road geometry, topography, Detailed design, estimate detailed topographic survey, Conducting FDD test/utility services and cost estimation. This analysis shall lead to an assessment of the magnitude of demand on proposed corridors and resultant requirement of Infrastructure. The Consultant's services shall also consist of following report • Fixing chainage Stone /Bench mark Stone / Center Stone/ Apex Stone in earth and all sorts of soil and soft murum including conveying excavated material, fixing stone, including painting lettering numbers and back filling etc. complete (min.3 for each kilometer) • Preparation of detailed Plans and Estimates of road including typing in 5 copies, ammonia prints, with coloring of plans, proper filing, indexing and paging etc. complete and all types of compliance, if required from Department. • Carrying of detailed topographic survey by using total station along the existing or new road including taking L-section and cross section at every 30 meter ROW, taking at least 10 spot levels per cross section, picking up all existing details inside the Row like electric telephone line, encroachments, structures etc. connecting all the primary total station control points by G.I.S.Bench marks level or whichever available with	study of existing traffic situation, traffic intensity, movement pattern, available road infrastructure, road right of way, future perceived Traffic Growth, detailed topographic survey, Conducting FWD test/BBD Test. The Consultant's services shall also consist of following • Fixing chainage Stone /Bench mark Stone / Center Stone/ Apex Stone in earth and all sorts of soil and soft murum including conveying excavated material, fixing stone, including painting lettering numbers and back filling etc. complete (min.3 for each kilometer) • Preparation of detailed Plans, GAD of roads with coloring of plans, proper filing, indexing and paging etc. complete and all types of compliance, if required from Department . • Carrying of detailed topographic survey by using total station along the existing roads

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		department using auto level and preparing Auto CAD plan by using above data taking out 1 set of black and white printout on 50 micron polyster film sheet A2 size and 2 sets of coloured printout on A2 size submitting soft copy all data on CD. Plain Terrain Existing Alignment. • Autocad drawing with colour print out for Bridge / Road/ CD Works in required size etc. complete. • Core extraction test for bitumen surface. (min 10 no of cores per kilometers) • Conducting of Falling weight deflectometer (FWD) test with Equipment with SUV or by Benkelman Beam Deflection test & submitting of reports. (As per relevant IRC, MoRth etc codes) • Axle load survey of all roads to be carried out norms. • Preparation of Engineering drawing as strip plan, widening scheme, index / key map, typical cross section, retaining walls, road furniture, general arrangement drawings for bus bays / truck lay-bays / rest areas / toll plaza / booths / and type drawing of pipe/ slab drains etc. on computer using Auto CAD Geometrical design of road horizontal and vertical curves for design speed specified by IRC including carrying out trail for optimising of civil cost minimizing land acquisition and maximum use of existing facility and preparation of widening arrangement drawing for insisting structures stake out date for horizontal alignment and working levels including super elevation effect etc. complete. • Preparation of Autocad drawing with colour print for Building / Bridge / Road/ CD Works in	including taking L-section and cross section at every 30 meter ROW, taking at least 10 spot levels per cross section, picking up all existing details inside the Row like electric telephone line, encroachments, structures etc. connecting all the primary total station control points by GIS Bench marks level or whichever available with department using auto level and preparing Auto CAD plan by using above data. • Autocad drawing with colour prints out for Bridge / Road/ CD Works in required size etc. complete. (A2 size) • Core extraction test for bitumen surface. (min 10 no of cores per kilometers) with reports. • Conducting of Falling weight deflectometer (FWD) test with Equipment with SUV or by Benkelman Beam Deflection test & submitting of reports. (As per relevant IRC, MoRth etc codes) • Axle load survey of all roads to be carried out as per norms.

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		required size etc. complete. A-1 Size and compiling the DPR. • Assisting BBMP in all aspects in the preparation of Detailed Project Report. • Social Impact study and Environmental study. • Details of existing utilities lines. • Traffic surveys, pedestrian survey and analysis.(in co-ordination with Traffic Police and BBMP) • Classified traffic volume counts • Cost-benefits/economic analysis. • Engineering surveys and investigations and proposed road features • Design standards and specifications • Drainage facilities including cross drainage structures • Plan of action for Traffic diversion during Construction • Miscellaneous, Conclusions and recommendations	• Preparation of Engineering drawing as strip plan, index/ key map, typical cross section, road furniture, general arrangement drawings and bus bays using Auto CAD of road horizontal and vertical curves for design speed specified by IRC. (A2 size) • Preparation of Autocad drawing with colour print for Road Works complete. A-2 Size and compiling the DPR. • Traffic surveys, pedestrian survey and analysis Classified traffic volume counts • Details of existing drainage facilities including cross drainage structures
		a) Cost Estimate The project estimate shall give a clear picture of the financial commitment involved and shall be realistic. The quantities determined to a reasonable degree of accuracy and the rates provided on a realistic basis. PWD/NH Bangalore circle schedule of rates shall be adopted	**a) Deleted**
		b) Drawings Projects drawings shall depict the proposed work in relation to the existing features, besides other information necessary for easy and accurate translation of the proposals in the field. For easy understanding	**b) Drawings** Project drawings shall depict the proposed work in relation to the existing features, besides other information

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		and interpretation, drawings shall follow a uniform practice with regard to size, scales and the details to be incorporated.	necessary for easy and accurate interpretation of the proposals in the field. (5 sets of drawings and reports)
		c) Detailed Engineering Design The Consultant shall carry out Detailed Engineering Design of the Approved Proposal based on IRC and MoRT&H Specifications using technically and economically Sound Engineering Practices and Modus Operandi to execute the same structure at site. The present share of public transport in the city with the detailed action plan for improvement along with the time lines and targeted public transport share: Share of pedestrians, cyclist, two wheelers, cars etc., in the total tips: Air quality indicates year wise like NOX, SPM etc.,	**c) Deleted**
		1.4 Reporting Obligations **Schedule of Reports:** The Consultant shall submit Reports both in Hard and Soft Copies in English and in MS WORD / MS EXCEL Format and presented on Metric A4 Size Paper. Each of the Reports shall be presented to BBMP as an Audio Visual Presentation as and when requested. The all the Drawings including topographical survey shall be submitted in AutoCAD Format with co-ordinates and in proper scales as required. Capturing real time Existing Site Conditions through Dron Camera along with preparation of Animated 3D model of the Project and superimposing the same on the Site Image exerted from Google. Further, Simulation of Post Construction Scenario Vehicular	**1.4 Reporting Obligations** **Schedule of Reports:** The Consultant shall submit Reports both in Hard and Soft Copies in English and in MS WORD / MS EXCEL Format. Each of the Reports shall be presented to BBMP as an Power Point Presentation as and when requested. All the Drawings including topographical survey shall be submitted in AutoCAD Format with co-ordinates and in proper scales as required.

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		Movements on the Animated 3D Model. Also, preparation of 3D Image of the Project.	

Other terms & conditions remain unchanged.

Executive Engineer
Project Central -1
Bruhat Bengaluru Mahanagara Palike

Copy submitted to:
1. Chief Engineer (Projects Central) for kind information.
2. Superintending Engineer (Projects Central) for kind information.
3. Office Copy.